

WT18i



Purpose of this document

Sony Ericsson product White papers are intended to give an overview of a product and provide details in relevant areas of technology.

Document history

Version

May 2011	First released version	Version 1
----------	------------------------	-----------

Sony Ericsson Developer World

For the latest Sony Ericsson technical documentation and development tools, go to www.sonyericsson.com/developer

This White paper is published by:

Sony Ericsson Mobile Communications AB,
SE-221 88 Lund, Sweden

www.sonyericsson.com

© Sony Ericsson Mobile Communications AB, 2010-2011. All rights reserved. You are hereby granted a license to download and/or print a copy of this document. Any rights not expressly granted herein are reserved.

First released version (May 2011)
Publication number: 1248-5839.1

This document is published by Sony Ericsson Mobile Communications AB, without any warranty*. Improvements and changes to this text necessitated by typographical errors, inaccuracies of current information or improvements to programs and/or equipment, may be made by Sony Ericsson Mobile Communications AB at any time and without notice. Such changes will, however, be incorporated into new editions of this document. Printed versions are to be regarded as temporary reference copies only.

This document may reference services or applications provided by third parties. Use of such programming or services may require separate registration with the third party provider and may be subject to additional terms of use. For applications accessed on or through a third-party website, please review such website's terms of use and applicable privacy policy in advance. Sony Ericsson does not warrant or guaranty the availability or performance of any third-party websites or offered services.

Some features described in this document are not supported by all networks and/or service providers in all areas. Please contact your network operator or service provider to determine availability of any specific service or feature and whether additional access or usage fees apply.

*All implied warranties, including without limitation the implied warranties of merchantability or fitness for a particular purpose, are excluded. In no event shall Sony Ericsson or its licensors be liable for incidental or consequential damages of any nature, including but not limited to lost profits or commercial loss, arising out of the use of the information in this document.

Table of contents

Product overview	5
Facts – dimensions, weight, performance and networks	5
Full feature list by category	7
Technologies in detail	9
Device-to-device communications (local)	9
Bluetooth™ wireless technology	9
WLAN	10
Messaging	11
Positioning – location based services	12
Synchronisation (OMA DS, EAS)	12
Multimedia (audio and video)	13
Web browser	14
Trademarks and acknowledgements	15

Product overview

Facts – dimensions, weight, performance and networks










Operating system	OMS 2.5
Processor	Marvell PXA 920, 806 MHz
Size	106 x 56.5 x 14.3 mm
Weight	110 grams
Available colours	Black White
Main screen	
Colours	16 M colour TFT
Resolution	HVGA, 480x320 pixels
Size (diagonal)	3.2 inches
Scratch-resistant	Yes (Front with minimum pencil hardness > 6H)
Input mechanisms	
Text input	Full Handwriting recognition Virtual keypad for English, Pinyin and Stroke
Touch screen	Capacitive (single touch)
Handwriting recognition	Yes
Gesture control	Yes
Memory	
Phone memory	At least 150 MB
Memory card support	microSD™, up to 32 GB
Camera	
Camera resolution	3 megapixel
Digital zoom	2 x digital zoom at VGA resolution
Video recording	Yes, 480p at 24fps
Video call camera (dedicated camera)	Yes
Sensor	
Accelerometer	Yes
Proximity sensor	Yes

Ambient light sensor	Yes
eCompass™	Yes
Networks	
WT18i	TD-SCDMA 2010-2025 MHz band, 1880-1920 MHz band GSM GPRS/EDGE 900, 1800, 1900
Data transfer speeds	
GSM GPRS (Class 10 CS4)	Up to 80 kbps (download). Up to 20 kbps (upload)
GSM EDGE (Class 10 MCS9)	Up to 237 kbps (download). Up to 237 kbps (upload)
TD-SCDMA HSPA (upload)	2.2 Mbps
TD-SCDMA HSPA (download)	2.8 Mbps
Talk time (GSM)	More than 360 minutes*
Standby time (GSM)	More than 200 hours*
Talk time (UMTS)	More than 360 minutes*
Standby time (UMTS)	More than 200 hours*
Video call time	More than 2 hours
Music listening time (Walkman phones only)	More than 11 hours in flight mode
Video playback time	More than 4 hours in flight mode
Battery	1200 mAh

*Values are according to GSM Association Battery Life Measurement Technique.

Note: Battery performance may vary depending on network conditions and configurations, and phone usage.

Full feature list by category

 <p>Camera 3 megapixel camera 2x digital zoom Self-timer Send to web Video recording</p>	 <p>Music Album art Media player Music tones (MP3/AAC) Bluetooth™ stereo (A2DP) Shake Control Stereo speakers Walkman™ player TrackID™ music recognition</p>	 <p>Internet Bookmarks Pan & zoom Web browser (WebKit)</p>
 <p>Communication Call list Conference calls Polyphonic ringtones Speakerphone Vibrating alert Video calling (dedicated camera) Smart search</p>	 <p>Messaging Conversations Email Handwriting recognition Instant messaging Multimedia messaging (MMS) Predictive text input Sound recorder Text messaging (SMS)</p>	 <p>Design Activity menu key Auto rotation Keyboard (on-screen, 12 key) Keyboard (on-screen, QWERTY) Picture wallpaper Touchscreen Reality display with Sony Mobile Wallpaper animation</p>
 <p>Entertainment Radio (FM) Media browser Video streaming Video viewing 3D games Motion gaming</p>	 <p>Organiser Alarm clock Calculator Calendar Document readers eCompass™ e-manual Flight mode Notes Phonebook Tasks Torch functionality Widget manager</p>	 <p>Connectivity 3.5 mm audio jack aGPS Bluetooth™ technology Modem Micro USB Support Synchronisation with computer USB mass storage USB High speed 2.0 support USB support WAPI</p>



Applications

Dictionary
eCompass™
FM Radio
Fetion™
KAIXIN*
Music illumination
Music Lyric
Mobile Market (MM)
My PIM
Mobile Music
Mobile TV
Mobile Video
Mobile Reader
My Favourites
Monternet®
Music Genie
Game Hall
Creatouch™
Navigation
Office Viewer
Quadrapop®
renren*
Sina Mircoblog*
TrackID™

** The Chinese names of these applications are registered trademarks.*

Technologies in detail

NOTE: The information outlined below is general, and levels of compliance to standards and specifications may vary between products and markets. For more information, contact Sony Ericsson Developers World or your Sony Ericsson contact person where applicable.

Device-to-device communications (local)

Bluetooth™ wireless technology

Bluetooth™ profiles supported	Advanced Audio Distribution Profile Audio/Video Remote Control Profile Generic Access Profile Generic Object Exchange Profile Handsfree Profile Headset Profile Object Push Profile Phonebook Access Profile Service Discovery Application Profile
Core version and supported features	2.1 + EDR
Connectable devices	Interoperability and compatibility among Bluetooth™ devices can vary. This device generally supports products utilising Bluetooth spec. 1.1 or later, and at least one of the profiles above.

More information:

www.sonyericsson.com/developer

www.bluetooth.com

WLAN

WLAN is a popular wireless networking technology that uses radio waves to provide wireless high-speed Internet and network connections. WLAN hotspots exist in an increasing number of locations, for example, airports, hotels, cafés and bistros. Mobile phones support WLAN can take advantage of high data transfer rates and lower calling costs.

Supported standards	IEEE 802.11g/802.11b/802.11n GB 15629.11-2003 GB 15629.11-2003/XG1-2006
Connectable devices	Connect using WLAN ad-hoc mode
Frequency band	2.4 GHz
Security	Open Open WEP Shared WEP WPA Personal and WPA2 Personal WPA Enterprise and WPA2 Enterprise WAPI
Encryption	WPI-SMS4, RC4, TKIP and AES

Messaging

(MMS) Multimedia Messaging Service

According to OMA Multimedia Messaging Service V.1.2 + SMIL.

Email

Bearer type (IP)	GSM Data (IP) GPRS and HSCSD
Character sets	GB2312* ISO-8859-1 UTF-8 UTF-16 US-ASCII ISO-8859-2 UTF-7 KOI8-R Windows codepage 1251 ISO-10646-UCS-2
OTA provisioning solution	OMA Client Provisioning 1.1
Protocols	POP3, IMAP, SMTP
Push email	CMCC push email
Secure email	SSL
HTML mail	Yes

**Note: GB2312 is available in Simplified Chinese variants only, that is, Mainland China variants.*

More information:

www.sonyericsson.com/developer

www.openmobilealliance.org

Positioning – location based services

Supported standards:

OMA Secure User Plane Location (SUPL) v1.0

Synchronisation (OMA DS, EAS)

OMA Data Synchronisation protocol version 1.1.2

OMA Data Formats: vCard 2.1, vCalendar 1.0

More information:

www.sonyericsson.com/developer

Multimedia (audio and video)

Audio Playback	Decoder format	Supported in file format
	Audio decoding MPEG-1/2/2.5, audio layer 3	MP3 (.mp3)
	AAC	3GP (.3gp), AAC (.aac)
	AAC+	MP4 (.mp4), M4A (.m4a)
	WMA	WMA (.wma)
Audio Recording	Encoder format	Supported in file format
	AMR-NB	AMR (.amr)
Video Playback	Decoder format	Supported in file format
	MPEG-4 Visual Simple Profile	3GP (.3gp), MP4 (.mp4)
	H.264 Baseline Profile	3GP (.3gp), MP4 (.mp4)
	H.263 Profile 0	3GP (.3gp)
	720P at 25fps	
Video Recording	Encoder format	Supported in file format
	480 at 24fps	3GP (.3gp)
Audio/Video Streaming	Streaming transport	RTSP according to 3GPP™

Web browser

Browser version	Apple WebKit 533.1+
Bookmarks	Folders and sorting supported
Navigation/rendering	Pan & Zoom Landscape/portrait rendering Full page PC rendering
Search	Internet Search Find on page
Browser compliancy	HTML version. 4.01 XHTML Basic version 1.0 XHTML version 1.1 XHTML Mobile Profile version 1.1 WML 1.3 CSS 3.0 WCSS Version1.1 ECMA – script 262 3rd edition ECMA Script Mobile Profile 1.0 HTTPXML Request AJAX
Protocol Compliancy	HTTP/1.1 TLS 1.0 and SSL 3.0 OMA Download 1.0

More information:

www.access-company.com/products/mobile_solutions

Trademarks and acknowledgements

The Liquid Identity and Liquid Energy logos, Creatouch, Quadrapop and TrackID are trademarks or registered trademarks of Sony Ericsson Mobile Communications AB. Sony, "make.believe", WALKMAN are trademarks or registered trademarks of Sony Corporation. Ericsson is a trademark of Telefonaktiebolaget LM Ericsson.

TrackID is powered by Gracenote™ Mobile MusicID™. Gracenote and Mobile MusicID are trademarks or registered trademarks of Gracenote, Inc. Bluetooth is a trademark or registered trademark of Bluetooth SIG Inc. and any use of such mark by Sony Ericsson is under license.

microSD is a trademark or registered trademark of SanDisk Corporation. renren is a trademark or registered trademark of China InterActive Corp. The Chinese language name of Sina Microblog（新浪微
博） is a trademark or registered trademark of Sina Technology (China) Co., Ltd. The Chinese characters of KAIXIN（开心网） is a trademark or registered trademark of Kaixinren InfoTech Co., Ltd.

eCompass is a trademark or registered trademark of Genoptix, Inc. Fetion is a trademark or registered trademark of China Mobile Limited.

3GPP is a trademark or a registered trademark of ETSI.

All other trademarks and copyrights are the property of their respective owners.

Some features described herein require supporting services. Usage charges may apply for such services.